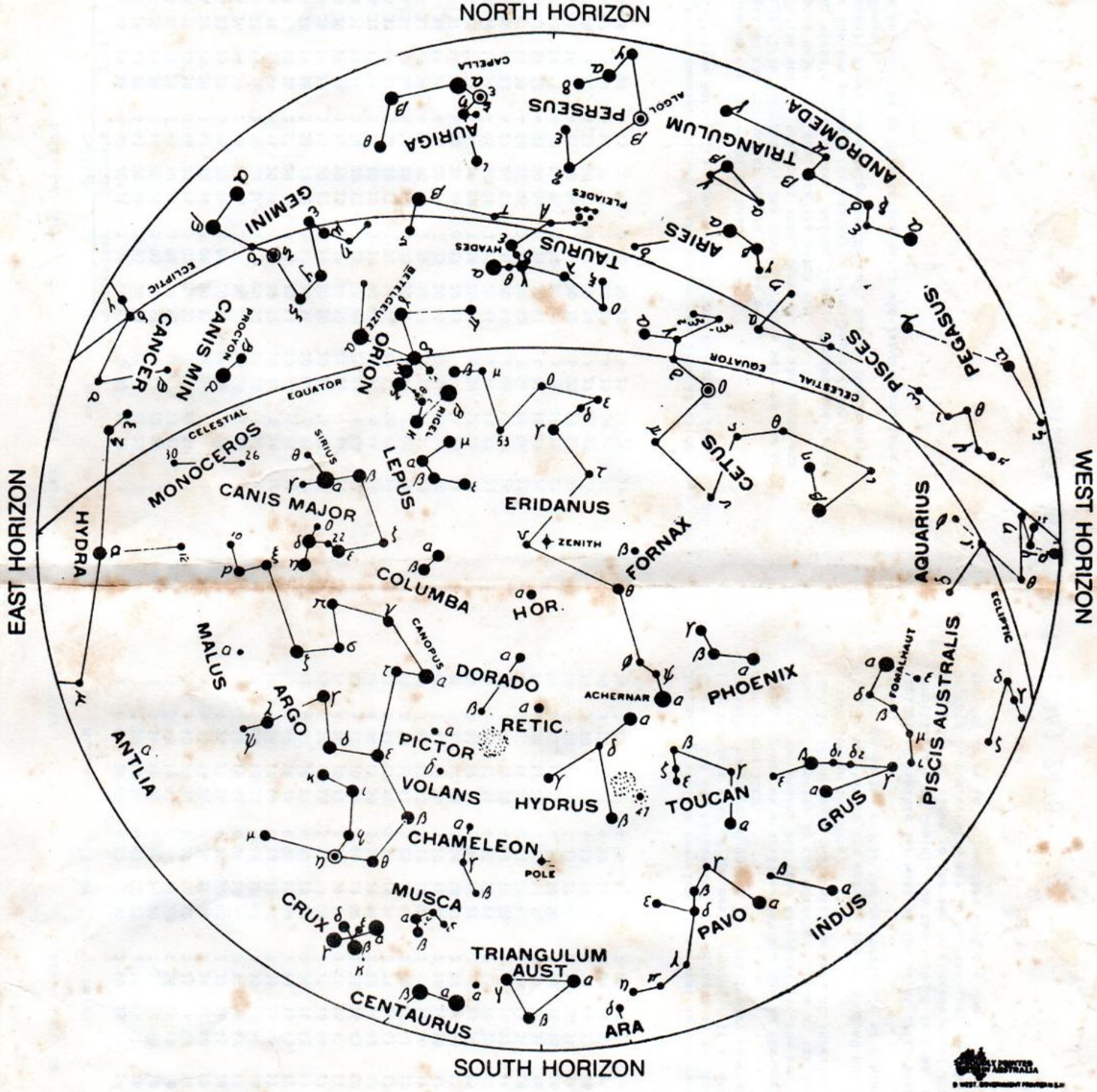
THE SKY THIS MONTH

DECEMBER – JANUARY



This star map shows the stars and constellations of the night sky as seen from Sydney at (E.S.T.)

11pm December 1 9pm January 1
10pm December 17 8pm January 16

For other dates subtract or add half hour each week.

TO USE THIS MAP— Hold above your head so that north horizon on map points north from where you are.

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A branch of the Museum of Applied Arts and Sciences.

JANUARY — RISE AND SET — SYDNEY 1990

	Sun		Twilight: Civil		Twilight: Nautical		Twilight: Astronomical		Moon		
1	4 47	19 09	4 18	19 38	3 43	20 14	3 04	20 53	8 32	21 53	1
2	4 48	19 10	4 19	19 39	3 43	20 14	3 05	20 53	9 36	22 22	2
3	4 49	19 10	4 20	19 39	3 44	20 14	3 05	20 53	10 41	22 51	3
4	4 50	19 10	4 21	19 39	3 45	20 14	3 06	20 53	11 47	23 21	4
5	4 50	19 10	4 22	19 39	3 46	20 14	3 07	20 53	12 55	23 54	5
6	4 51	19 10	4 22	19 39	3 47	20 14	3 08	20 53	14 05		6
7	4 52	19 10	4 23	19 39	3 48	20 14	3 09	20 52	15 18	0 33	7
8	4 53	19 10	4 24	19 39	3 49	20 14	3 11	20 52	16 29	1 19	8
9	4 54	19 10	4 25	19 39	3 50	20 14	3 12	20 52	17 36	2 13	9
10	4 55	19 10	4 26	19 39	3 51	20 14	3 13	20 52	18 34	3 16	10
11	4 56	19 10	4 27	19 38	3 52	20 13	3 14	20 51	19 23	4 24	11
12	4 56	19 10	4 28	19 38	3 53	20 13	3 15	20 51	20 03	5 34	12
13	4 57	19 10	4 29	19 38	3 54	20 13	3 16	20 50	20 37	6 42	13
14	4 58	19 09	4 30	19 38	3 55	20 12	3 18	20 50	21 06	7 46	14
15	4 59	19 09	4 31	19 37	3 56	20 12	3 19	20 49	21 33	8 48	15
16	5 00	19 09	4 32	19 37	3 57	20 12	3 20	20 49	21 58	9 46	16
17	5 01	19 09	4 33	19 37	3 58	20 11	3 21	20 48	22 23	10 43	17
18	5 02	19 08	4 34	19 36	4 00	20 11	3 23	20 47	22 49	11 40	18
19	5 03	19 08	4 35	19 36	4 01	20 10	3 24	20 47	23 18	12 37	19
20	5 04	19 08	4 36	19 36	4 02	20 10	3 25	20 46	23 51	13 35	20
21	5 05	19 07	4 37	19 35	4 03	20 09	3 27	20 45		14 33	21
22	5 06	19 07	4 38	19 35	4 04	20 08	3 28	20 45	0 29	15 31	22
23	5 07	19 06	4 39	19 34	4 05	20 08	3 29	20 44	1 14	16 27	23
24	5 08	19 06	4 40	19 33	4 07	20 07	3 31	20 43	2 06	17 19	24
25	5 09	19 05	4 41	19 33	4 08	20 06	3 32	20 42	3 04	18 06	25
26	5 10	19 05	4 42	19 32	4 09	20 06	3 33	20 41	4 08	18 47	26
27	5 11	19 04	4 43	19 32	4 10	20 05	3 35	20 40	5 14	19 23	27
28	5 12	19 03	4 45	19 31	4 11	20 04	3 36	20 39	6 20	19 55	28
29	5 13	19 03	4 46	19 30	4 13	20 03	3 37	20 38	7 27	20 25	29
30	5 14	19 02	4 47	19 29	4 14	20 02	3 39	20 37	8 33	20 54	30
31	5 15	19 01	4 48	19 29	4 15	20 01	3 40	20 36	9 39	21 24	31

Eclipse: There will be an annular eclipse of the sun on the 27th at 05:00 hours, but it will only be visible from Antarctica, South America and the south island of New Zealand.
Earth is at perihelion on the 5th at 03:00 hours.
The Moon is at perigee on the 8th and at apogee on the 20th.
Evening Constellations (2100-2200 hours): The Southern Cross will be low to the south horizon with Carina and its brightest star, Canopus, to the south-east. Taurus, Orion and Canis Major will dominate the north sky.
Zodiac Constellations visible are: Pisces, Aries, Taurus, Gemini and Cancer.
Bright Stars include the two pointers (Centaurus): Formalhault (Piscis Aust);Aldebaran (Taurus); Rigel and Betelgeuse (Orion); Sirius (Canis Major); Castor and Pollux (Gemini).
For Astrologers: the sun will be in Sagittarius until mid-January and then moving into Capricorn.

JANUARY — RISE AND SET — SYDNEY 1990

	Mercury		Venus		Mars		Jupiter		Saturn		
1	6 04	20 03	6 57	20 34	2 40	16 51	18 39	4.33	5 15	19 27	1
2	5 59	19 56	6 53	20 29	2 39	16 51	18 34	4 29	5 12	19 23	2
3	5 54	19 49	6 48	20 23	2 37	16 50	18 30	4 24	5 08	19 20	3
4	5 48	19 41	6 44	20 18	2 36	16 49	18 25	4 20	5 05	19 16	4
5	5 40	19 33	6 39	20 12	2 35	16 49	18 21	4 15	5 01	19 13	5
6	5 33	19 24	6 34	20 06	2 34	16 48	18 16	4 11	4 58	19 09	6
7	5 24	19 14	6 29	20 00	2 32	16 48	18 12	4 06	4 55	19 06	7
8	5 15	19 05	6 24	19 54	2 31	16 47	18 07	4 02	4 51	19 02	8
9	5 06	18 55	6 19	19 47	2 30	16 46	18 03	3 57	4 48	18 59	9
10	4 56	18 45	6 13	19 41	2 29	16 46	17 58	3 53	4 45	18 55	10
11	4 47	18 36	6 08	19 34	2 28	16 45	17 54	3 48	4 41	18 52	11
12	4 37	18 27	6 02	19 28	2 26	16 45	17 49	3 44	4 38	18 48	12
13	4 28	18 19	5 56	19 21	2 25	16 44	17 45	3 39	4 34	18 45	13
14	4 20	18 11	5 50	19 14	2 24	16 43	17 40	3 35	4 31	18 41	14
15	4 12	18 04	5 44	19 07	2 23	16 43	17 36	3 30	4 28	18 38	15
16	4 04	17 58	5 38	19 01	2 22	16 42	17 32	3 26	4 24	18 35	16
17	3 58	17 52	5 31	18 54	2 21	16 41	17 27	3 21	4 21	18 31	17
18	3 52	17 47	5 25	18 47	2 20	16 41	17 23	3 17	4 17	18 28	18
19	3 46	17 43	5 19	18 40	2 19	16 40	17 18	3 13	4 14	18 24	19
20	3 41	17 39	5 12	18 34	2 18	16 39	17 14	3 08	4 11	18 21	20
21	3 37	17 36	5 06	18 27	2 17	16 39	17 10	3 04	4 07	18 17	21
22	3 33	17 33	5 00	18 21	2 16	16 38	17 05	2 59	4 04	18 14	22
23	3 30	17 31	4 53	18 14	2 15	16 37	17 01	2 55	4 01	18 10	23
24	3 27	17 30	4 47	18 08	2 14	16 37	16 57	2 51	3 57	18 07	24
25	3 25	17 29	4 41	18 02	2 13	16 36	16 52	2 46	3 54	18 03	25
26	3 23	17 28	4 35	17 56	2 12	16 35	16 48	2 42	3 50	18 00	26
27	3 21	17 27	4 29	17 50	2 11	16 35	16 44	2 37	3 47	17 56	27
28	3 20	17 27	4 23	17 44	2 10	16 34	16 39	2 33	3 44	17 53	28
29	3 20	17 27	4 17	17 38	2 10	16 33	16 35	2 29	3 40	17 49	29
30	3 19	17 27	4 12	17 33	2 09	16 32	16 31	2 25	3 37	17 46	30
31	3 19	17 27	4 06	17 28	2 08	16 32	16 26	2 20	3 33	17 42	31

Mercury is visible very low in the west in the evening until the 3rd when it is too close to the sun to observe. It appears on the 15th in the morning but is best seen from the last week of the month onwards. It is at perihelion on the 4th, at inferior conjunction on the 9th, stationary on the 20th and will appear close to the moon on the 25th.
Venus appears as a brilliant object low in the west of an evening for the first few days of the month, but then disappears in the sun's glare until the end of the month when it reappears in the morning. It is at its least distance from the earth on the 18th at 13:00 hours (40.1 million km), at inferior conjunction on the 19th and at perihelion on the 26th.
Mars is visible in the morning sky from 02:40 hours at the beginning of the month and 02:10 at the end in the constellation of Ophiuchus. On the 24th it is near the moon.
Jupiter is visible for most of the night until early morning all month in the constellation of Gemini. On the 10th it is near the moon.
Saturn is too close to the sun to observe until a few days after mid-month when it appears in the morning sky in Sagittarius. On the 5th it is near the moon and on the 7th it is in conjunction with the sun.